

INTERNATIONAL REVOLVING DOORS



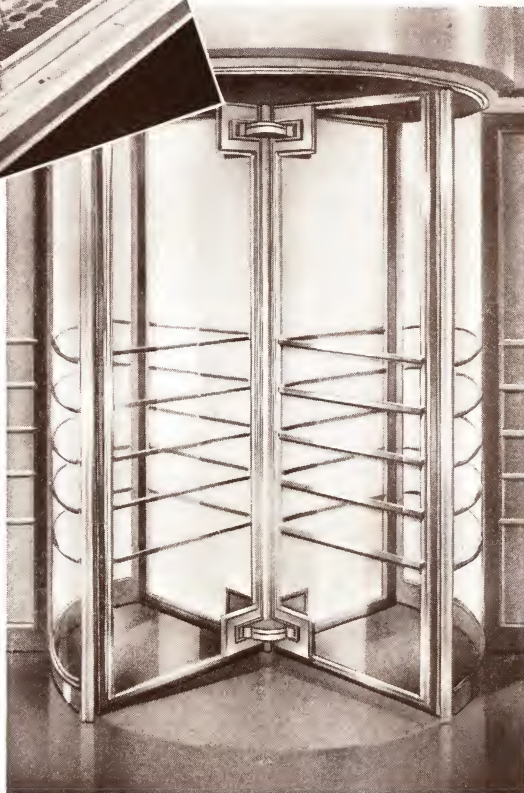
INTERNATIONAL REVOLVING DOOR CO.
EVANSVILLE, INDIANA. U.S.A.

WIDELY USED IN MANY PROMINENT BUILDINGS



S. C. JOHNSON AND SON
RACINE, WIS.
Frank Lloyd Wright, Architect

S. C. Johnson and Son of Racine, Wisconsin, internationally famous as makers of Johnson's Floor Wax and "Glo-coat" selected International doors designed personally by Frank Lloyd Wright, Architect, for their modern office building. The doors are a patented "Crystal" design of bronze with a maximum of visibility.



CENTRAL
TOWER
BLDG.
San
Francisco,
Calif.
ALBERT F.
ROLLER,
ARCHT.



Originally the famous "Call Bldg.". One of the few buildings to survive the earthquake of 1906. Recently remodeled into one of the most modern buildings on the Pacific Coast. A modern International Revolving Door was installed in the main entrance.



STATE OFFICE
BUILDING
ALBANY, N. Y.

Wm. E. Haugaard,
Commissioner of
Architecture

International Revolving Doors have satisfactorily coped with the unusual conditions occurring at the entrance of this huge building. A dignified design in bronze, is in perfect accord with the building's architecture. Entire entrance of hollow bronze.



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CUTLER SHOE STORE
CHICAGO, ILL.

Louis L. Abramson, Architect,
New York City, N. Y.

The most modern in design and one of the oldest shoe stores in Chicago, located in the famous Palmer House.

The bronze "Crystal" design International door was selected as being in harmony with the design of this outstanding store.

INTERNATIONAL REVOLVING DOOR COMPANY

★ OF EVANSVILLE, INDIANA, U. S. A. ★

PRODUCTS ★ ★

Revolving Doors and all Revolving Door accessories—swing doors, sliding doors, panel work, transoms, etc.

Crystal Revolving Doors, providing greatest visibility and light, in keeping with modern trends. International Revolving Doors are furnished in all cabinet woods, also in Formica, aluminum, bronze, nickel silver, stainless steel and other metals.

DESCRIPTION

Smarter, adaptable; more dependable and economical—International Revolving Doors have altered previous conceptions of design and set new standards of operation.

Sweeping, curved enclosure walls—surfaced with modern metals, plastics and wood;—hardware, facia and pilasters harmonize with modern architecture.

The *Standard* line (described on pages 8 and 9) is made in all materials. There are no fixed models in this line; and size and design may be varied to

interpret any individual design or to meet any need.

The *Stock* line (shown on page 12) is an economy line of wood doors where low cost is combined with high quality through production economies.

DESIGN SERVICE

The International Revolving Door Company maintains a skilled engineering and designing department and is nationally represented in all principal cities. (See listing in telephone directory.)

International's personnel, or any of its representatives will cooperate with the architect in developing designs, in making surveys of entrance requirements to determine size and type of door best suited and develop figures as to cooling and heating losses.

FIELD SERVICE

The International Revolving Door Company carries a complete stock of parts and service men are available to insure prompt servicing of all their installations.

★ A MODERN PLANT AND EFFICIENT MANUFACTURE ★



FACILITIES FOR FINE
METAL WORK

Pioneers in the development of improved technique for applying metal on wood, welding metals of light gauge, International has developed equipment for doing work of this nature equal to the finest cast work.



Corner of International's Modern Plant. Exclusively on production of modern revolving doors.



ASSEMBLED AND TESTED
BEFORE SHIPPING

International Revolving Doors are assembled, set up and tested at the factory before shipping, thus avoiding errors, defects and delay in erection. All of the mechanical features rigidly tested and inspected to insure proper operation when installed.



Aluminum Wings and Exterior: Walnut Interior
MILLER'S DEPARTMENT STORE—KNOXVILLE, TENN.
 Archts: Barber & McMurry, Knoxville, Tenn.
 Contrs: V. L. Nicholson Co., Knoxville, Tenn.



Birch Door: Natural and Enameled Finish
SMITH'S CAFETERIA—TOLEDO, OHIO
 Archts: Mills, Rhines, Bellman & Nordhoff
 Contr: J. H. Berkebile & Sons

REVOLVING DOORS LOWER HEATING AND COOLING COSTS!

Since a Revolving Door is *always* air sealed, infiltration losses are cut to a minimum. NO GUST of AIR—hot or cold—enters through an INTERNATIONAL REVOLVING DOOR.

Entrance draft velocities in tall buildings frequently reach 30 or more miles per hour, varying with wind velocity outside of building and the chimney-like draft action of the building varies according to its height and temperature inside and outside of the building. Operating under such conditions, a *swing* door admits 500 to 2,000 cubic feet of air per passage. A *swing* door vestibule admits 300 to 1,500 cubic feet per passage. Since a swing door is estimated to remain open for approximately two seconds per passage, air losses increase rapidly as traffic increases. When traffic reaches 1,800 persons in and out per day, air losses are equal to those caused by a door remaining constantly in an open position.

Under identical conditions an International Revolving Door admits only about 25 cubic feet of air per passage and varies imperceptibly with traffic increase.

During summer months Revolving Doors prevent hot, dust-laden air from entering an air-cooled building, thus, they have become a necessity in all modern buildings so equipped.

PAY FOR THEMSELVES

The material saving in heating and cooling costs effected by International Revolving Doors—permitting the use of smaller heating and cooling systems—pays for the cost of the door in a short time.

EASE OF OPERATION

Due to the aforementioned entrance draft velocities, swing doors are difficult to open and become an obstacle in building entrances. Modern, balanced REVOLVING doors eliminate this condition. Revolving doors handle a continuous flow of traffic at a uniform speed, in any weather.

TRAFFIC CAPACITIES

A revolving door in normal operation will revolve 10 to 12 times per minute. With each revolution it is possible for four people to pass in and four people to pass out, thus, a revolving door will permit approximately 2,500 people to pass in and 2,500 people to pass out per hour. With a greater speed in the revolutions of a door a larger number of passages can be taken care of.

COMPARATIVE AIR-LOSSES PER HOUR IN SWING DOORS AND REVOLVING DOORS

Height of Building	Average Draft Velocity M.P.H.	Cubic Feet of Air-Loss Per Hour 1,000 Passages, "In or Out"		
		Swing Door 2 Seconds Per Passage 3'0"x7'0"	Swing Door Vestibule 1 1/2 Seconds Per Passage 3'0"x7'0"	Revolving Door 7'0"x7'0"
10 Floors	14	862,400	646,800	67,300
20 Floors	16	976,450	734,600	67,300
30 Floors	18	1,108,800	831,600	67,300
40 Floors	20	1,232,000	902,960	67,300

(These figures will vary with the outside temperature and location.)

PANIC-PROOF MECHANISM

SIMULTANEOUS RELEASE PRINCIPLE

International Revolving Doors are equipped with the *Simultaneous Release* device. This patented device reduces the danger of obstruction during panic conditions to a minimum. When excessive pressure is exerted against any one wing, causing it to collapse, the other three wings are simultaneously released, thus, free to swing outward, forming an unobstructed passageway to the street.

By the use of an exclusive mechanical device, International doors are easier to collapse in a clockwise direction under panic conditions than in the normal operating direction, thereby offsetting the stack draft effect in tall buildings and high wind pressures from the outside.

The mechanism of the International door is so designed that it is possible for one man to reset the wings in revolving position, even with a high wind, in a minimum amount of time.

OFFICIAL TESTS ★ ★ ★ ★

"In order to determine the performance, a complete revolving door equipped with standard mechanism was tested at the Pittsburgh Testing Laboratory, developing the following facts:

COLLAPSING TEST UNDER LOAD

The spring plunger blocks being set to collapse at the pressures shown were applied by a spring balance at a point 42 inches above the floor on a 7 foot diameter door (as is generally required under building ordinances): air pressure was applied to one side of the door causing operation of the collapsing mechanism at static pressure equivalent to the wind velocities indicated below:

Spring Balance Collapsing Load,			
Lbs.	185	138	125
Equivalent Wind Velocity at Collapse (Miles per hour)	74	68	66

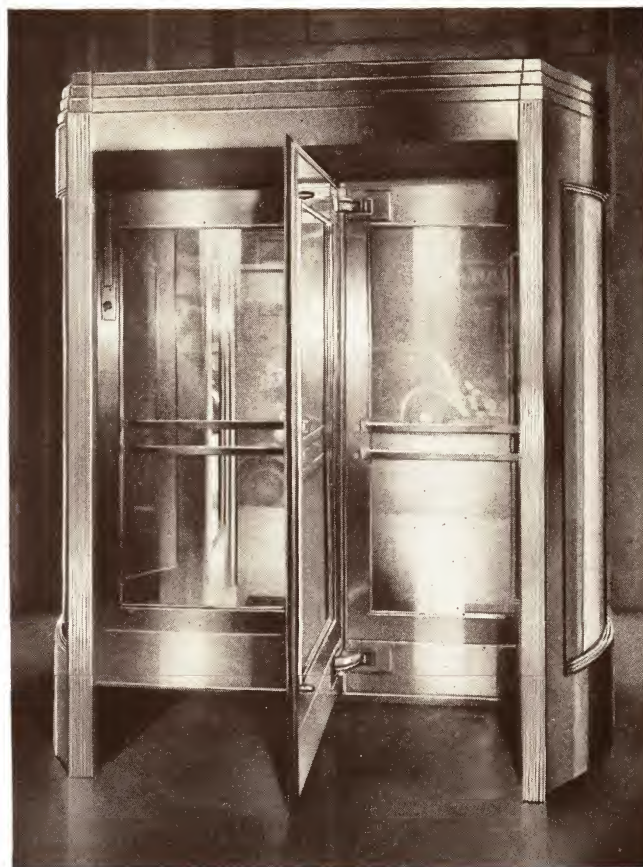
WEAR TEST UNDER LOAD

The mechanism was collapsed and reset under constant normal spring pressure 9,080 times after which no measurable wear of the steel plunger blocks or the bronze slots in which they operate was evident.

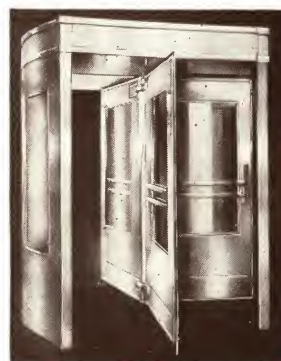
Assuming a single collapse each day, approximately twenty-five years would elapse to duplicate the operation of this test."

INDIVIDUAL RELEASE ★ ★ ★

Although International believes that the Simultaneous Release Principle has proven its superiority in panic conditions, International Revolving Doors are also produced with individually collapsing wings for those who prefer them.



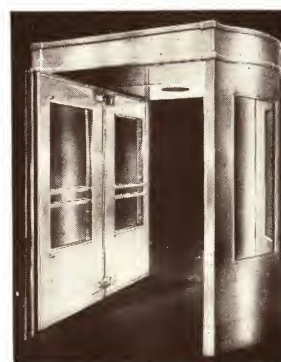
FOLDING POSITIONS: STANDARD DOOR



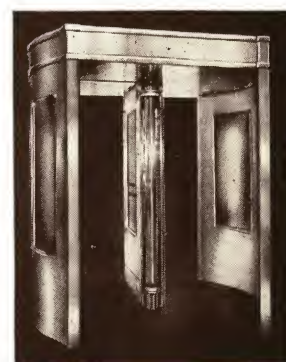
I. ONE WING COLLAPSED for passage of long objects.



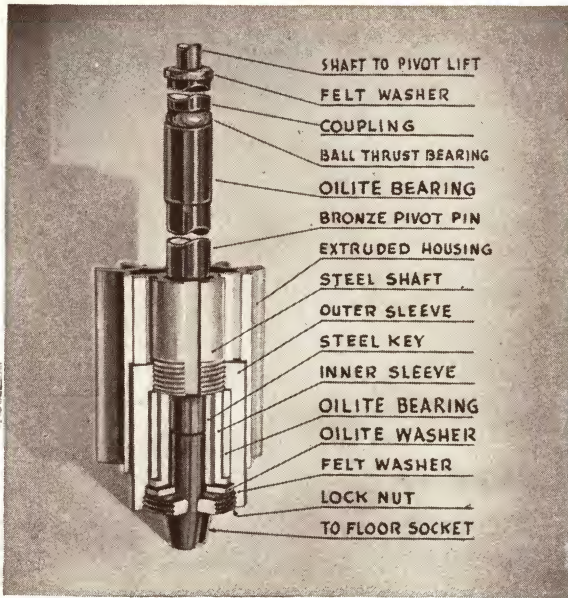
II. FOLDED CENTER POSITION for ventilation or temporary opening.



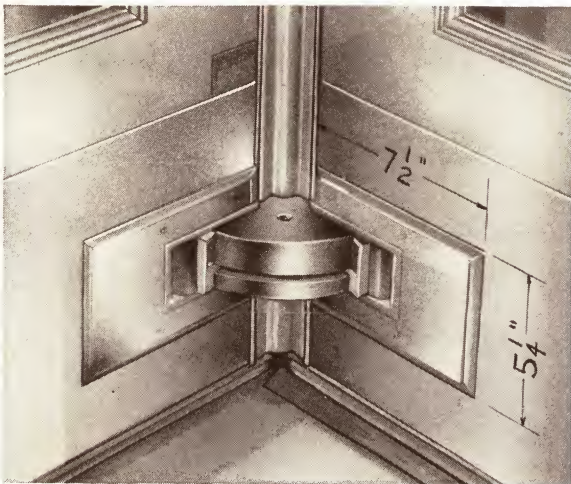
III. FOLDED TO ONE SIDE when revolving door not in use.



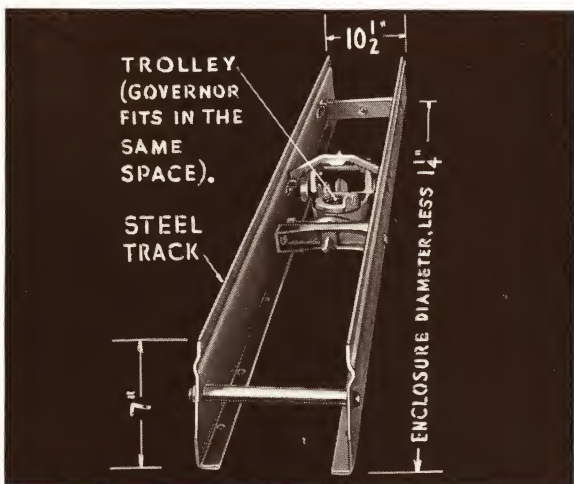
IV. PANIC POSITION as wings would collapse in case of emergency.



1. A CUT-AWAY SECTION OF LOWER PIVOT



2. PHOTO OF LOWER HANGER DISC ON A BRONZE DOOR



3. PHOTO OF TROLLEY ASSEMBLED AND PLACED IN STEEL TRACK

MECHANICAL FEATURES

Some of the exclusive mechanical features, which make International Revolving Doors proof against troubles common to ordinary revolving doors are:

1. LOWER PIVOT ★

Often a troublesome point in revolving doors, the International pivot has been carefully designed to require the minimum amount of replacements and attention. The pivot is of aluminum-bronze alloy. A rust-proof sleeve and Oilite bronze bearings eliminate any necessity for oiling. It is tightly sealed against dust and dirt, and requires no attention.

2. PANIC MECHANISM

Principles of operation are fully described on page 13. In the photo at left, note the extremely sturdy construction and the close fitting of all parts. If desired, the hanger plates as shown may be omitted on Hollow Metal or may be continued to form a kick plate on other construction.

3. ALL STEEL TROLLEY

In revolving position; a latch on top of the trolley holds wings firmly in center position. Raising the lower pivot releases this latch; door wings, suspended from the trolley, may be rolled (on four ball bearing wheels) to side of enclosure, and the pivot dropped into the second floor ferrule, the latch again engaging in this position. The main bearing of the trolley and the four wheels have ball bearings. The main shaft is on a swivel which allows a swing of 10 degrees from vertical. A stop screw in the track keeps latches properly adjusted. Other features are a special formed heavy steel track designed to support much greater weight than required of it.

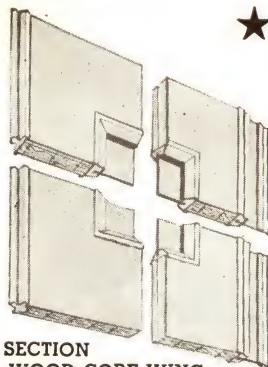
4. PIVOT LIFT ★ ★ ★

A patented device which is simple in operation and yet prevents unauthorized persons from lifting pivot out of floor. This is accomplished by inserting a key in a hole and raising a cover plate. This pivot lifter has no projecting parts to damage or injure the door or operator and is completely foolproof.



INTERNATIONAL

STANDARD



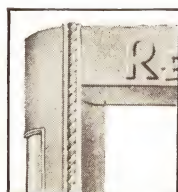
SECTION
WOOD CORE WING



DESIGN SUGGESTIONS



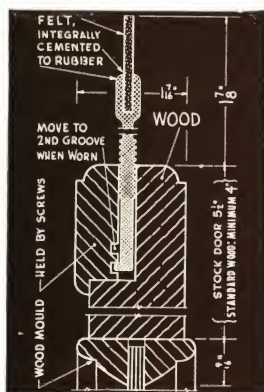
No. 500 WS



No. 300 A1-8



STANDARD WEATHERSTRIP CLAMP AND GLASS MOLDS FOR ALL WOOD DOORS



SERIES W

Wood Doors on a Wood Core



No. 500 W

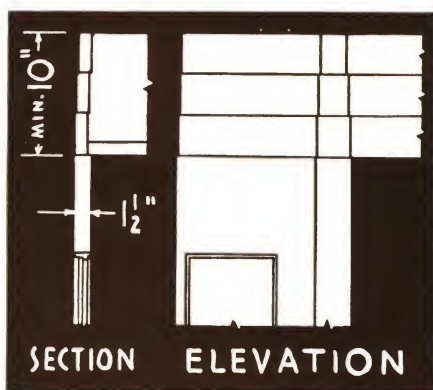
International wood doors are 5-ply laminated, waterproof and are scientifically designed with ventilated cores to prevent warping. Available in veneered wood with finish required.

Base design includes hardware, wings, enclosure walls (unglazed, or glazed in quarter, or half sections), push plates, kick plates, extruded moldings to extruded center shaft. Weatherstrips and clamp as shown at lower left this page or metal bindings optional at additional cost. Cornice may be similar to one above or made to special detail.

Full circular cornice, special designs, swing doors, etc., may be added as required.

International Doors are made in any size—to fit building conditions. Recommended sizes are shown on page 10.

CORNICE SUGGESTION NO. 802-W



A popular design which is economical—may be executed in Formica or metal.

SERIES F

Formica Doors on a Wood Core



No. 200 F

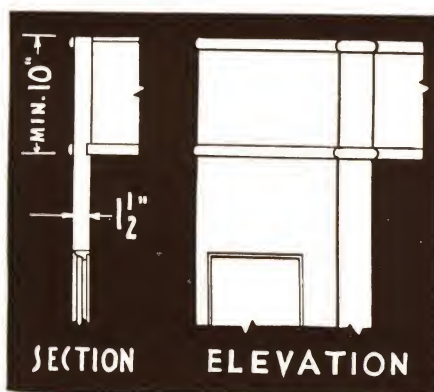
A pioneer in the use of Plastics for revolving doors, International has developed a special manufacturing technique in which the Formica covering is integrally bound to a laminated wood core with a waterproof adhesive.

To the Architect, this process opens a new field of design. It means that he can make his revolving doors (and accessories) in any of the wide range of plastic colors.

Formica can be inlaid with other colors or various metals. Its finish is hard, permanent and requires little care.

Conditions for design or size are same as for Series W.

CORNICE SUGGESTION NO. 808-F

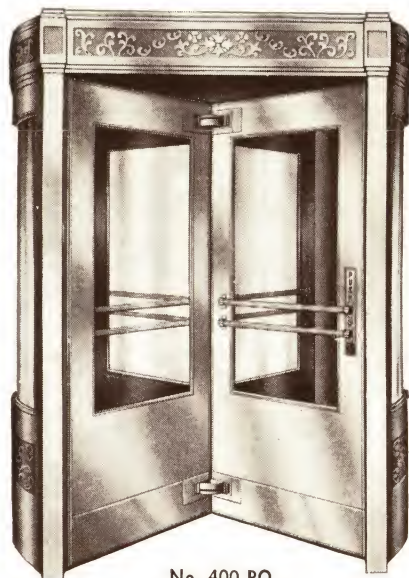


Half circular metal bands may be otherwise spaced; may be flat or square.

MODEL REVOLVING DOORS ★

SERIES PO

Metal Doors with Wood Core



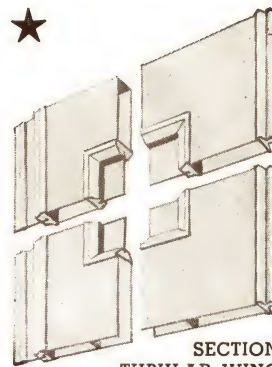
No. 400 PO

SERIES HM

Hollow-Metal with Tubular Wings



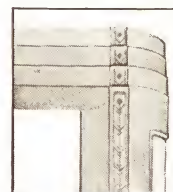
No. 300 HM



SECTION
TUBULAR WING



DESIGN SUGGESTIONS



No. 200 F2-4



No. 500 W1



STANDARD WEATHERSTRIP CLAMP AND GLASS MOLDS FOR ALL METAL, HOLLOW METAL AND FORMICA DOORS

Prepared surfaces, waterproof adhesive, plus pressure, makes the metal surface of International Series PO doors an integral and permanent surface of the wood.

An interesting effect made possible by this process is a combination of wood, metal, or Formica surfaces in the same door. An entrance in bronze may have the exterior revolving door surfaces bronze, and the inside veneered in wood.

Any metals may be used: Aluminum (natural or aluminized), bronze, nickel silver, stainless steel, Monel and many others have been successfully applied.

Glass moldings, hardware, biading, etc., are standard.

Design and size are same as for Series W.

International Revolving Doors of all-metal construction are slightly higher in price than the series PO doors. They are permanent, rigid and available in any metal.

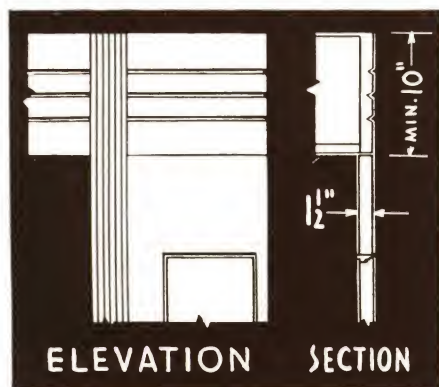
The wings are of seamless tubes welded and reinforced at all corners. With the exception of aluminized aluminum, which shows a fine hair line at the top, there are absolutely no joints visible in International hollow metal wings.

The enclosure is fastened to a braced, electrically-welded steel frame by concealed rivets or welds.

International's high standards of workmanship allow the architect to design unusual and special effects in metal.

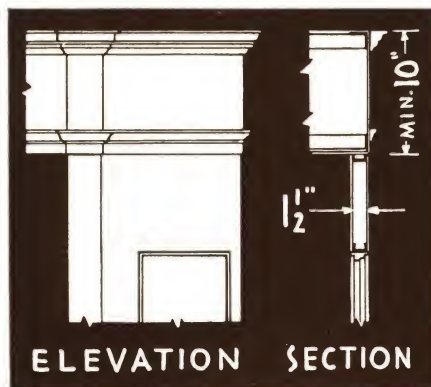
Conditions of design and size as for Series W.

CORNICE SUGGESTION NO. 913-PO



ELEVATION SECTION

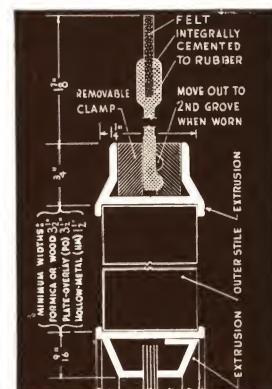
CORNICE SUGGESTION NO. 915-HM



ELEVATION SECTION

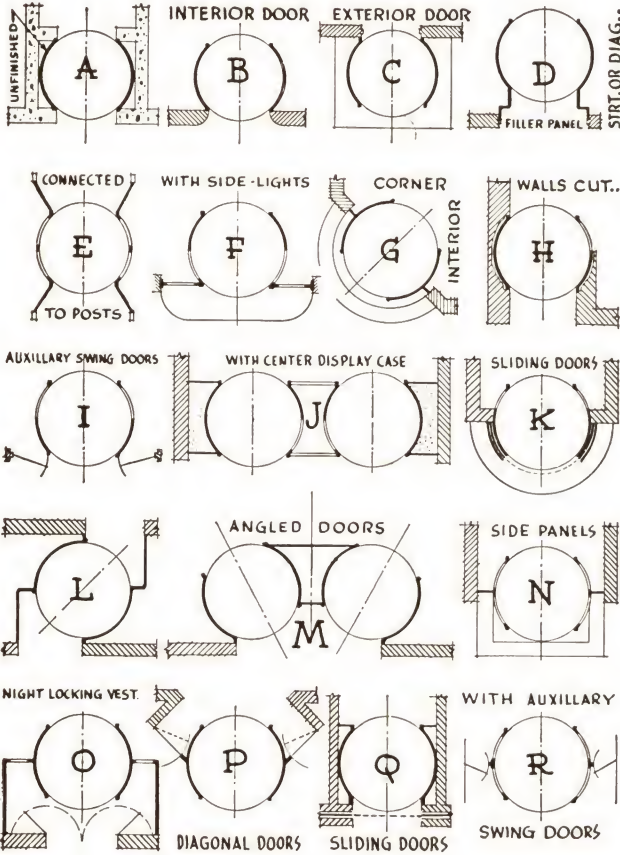
Showing "V" cuts: an International process applicable to all metal doors in any combination.

Formal designs in bronze, or other metal may be executed with standard or special extrusions.



TYPICAL FLOOR PLANS

Below are shown some special and typical conditions that may occur. These are not standard plans, but are included simply as suggestive, and for convenience in correspondence.

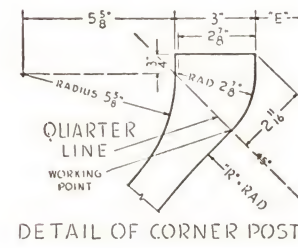
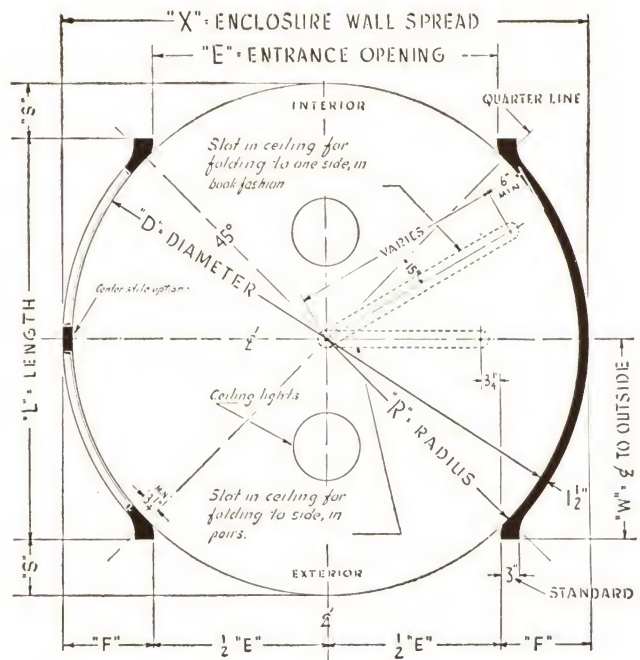
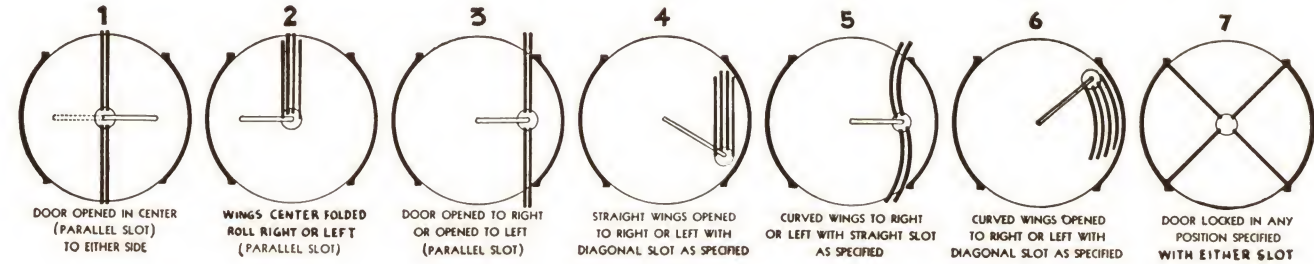


Standard door height from 6 ft. 8 in. to 8 ft. 0 in. with a recommended height of 7 ft. 0 in.

Detailed information on three wing, curved wings, motor control, burglar locks, will be sent on request.

Porcelain Enamel doors, Structural Glass Enclosures, mirrored ceilings, marble walls, Flexed enclosures and other special materials should be incorporated in the design in cooperation with International's design department.

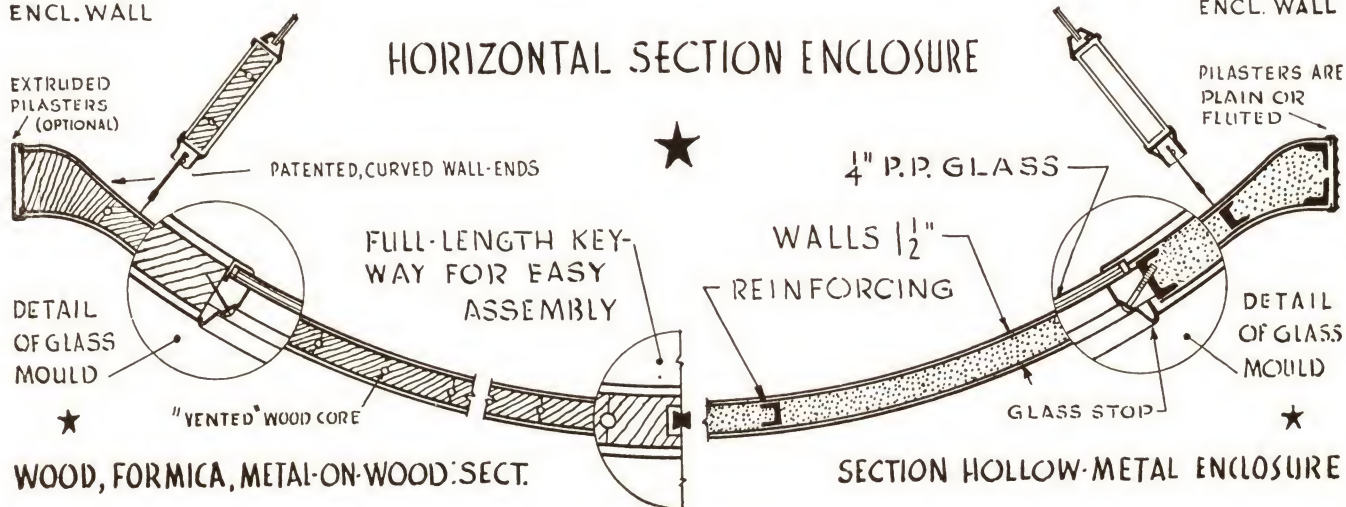
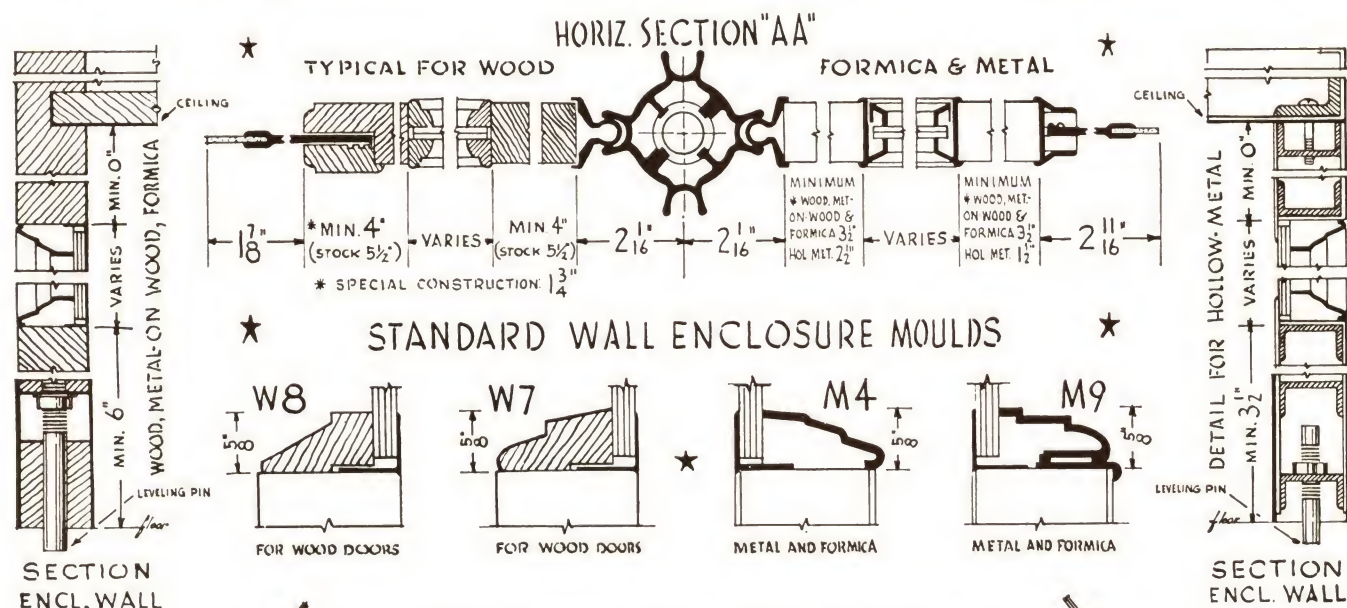
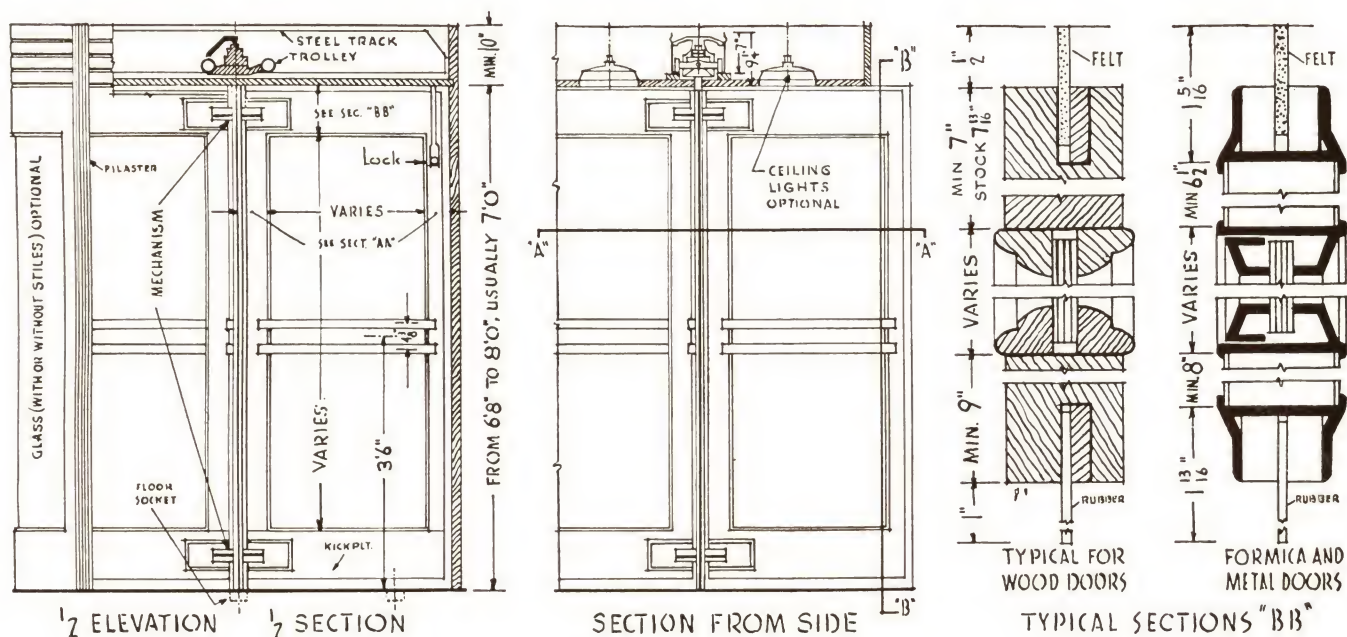
VARIOUS FOLDING POSITIONS OF INTERNATIONAL STANDARD WINGS

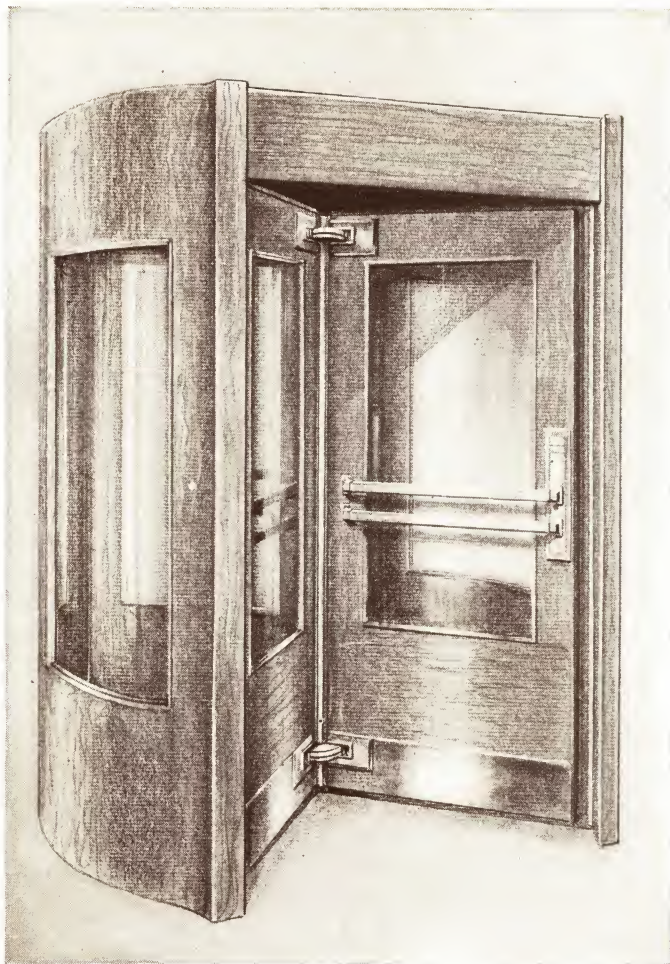


FLOOR PLAN AND TABLE OF DIMENSIONS FOR ALL STANDARD & STOCK MODELS

"D"	"R"	"E"	"X"	"L"	"F"	"S"	"W"
5'-6"	2'-9"	3'-8 1/4"	5'-9"	4'-5"	1'-0 3/8"	6 1/2"	2'-2 1/2"
6'-0"	3'-0"	4'-0 3/4"	6'-3"	4'-9 1/8"	1'-1 1/8"	7 7/16"	2'-4 9/16"
6'-2"	3'-1"	4'-2 1/4"	6'-5"	4'-10 3/8"	1'-1 3/8"	7 13/16"	2'-5 3/16"
6'-4"	3'-2"	4'-3 7/8"	6'-7"	4'-11 1/2"	1'-1 1/16"	8 1/4"	2'-5 3/4"
6'-6"	3'-3"	4'-4 7/8"	6'-9"	5'-1 3/8"	1'-2 1/16"	8 5/16"	2'-6 11/16"
6'-8"	3'-4"	4'-6 1/4"	6'-11"	5'-2 5/8"	1'-2 3/8"	8 9/16"	2'-7 5/16"
6'-10"	3'-5"	4'-8"	7'-1"	5'-4 1/8"	1'-2 1/2"	8 15/16"	2'-8 1/16"
7'-0"	3'-6"	4'-8 7/8"	7'-3"	5'-5 3/4"	1'-3 1/16"	9 1/8"	2'-8 7/8"
7'-2"	3'-7"	4'-10 3/4"	7'-5"	5'-6 3/4"	1'-3 3/8"	9 3/8"	2'-9 3/8"
7'-4"	3'-8"	5'-0 1/2"	7'-7"	5'-8"	1'-3 1/4"	10"	2'-10"
7'-6"	3'-9"	5'-2 1/8"	7'-9"	5'-9 1/4"	1'-3 7/16"	10 3/8"	2'-10 5/8"
8'-0"	4'-0"	5'-5 1/2"	8'-3"	6'-1 1/4"	1'-4 3/4"	11 1/8"	3'-0 7/8"

A SHEET OF TYPICAL DETAILS ★ ★ ★ ★ ★ ★ ★ ★ ★ ★





"900" SERIES STOCK DOORS

A line of wood doors incorporating all of International's superior engineering features. Made of quality materials and manufactured with precision, these doors are lower in cost because of volume production.

Design—Although made in only one *basic* design, appearance may be altered by addition of molds, cornices, lights or other features that do not change the basic structure.

Material—*Wings and Enclosures* are of birch veneer on a vented wood core—gloss finished. (Four-coat hand rubbed varnish, enamel or lacquer finishes at slightly higher prices.)

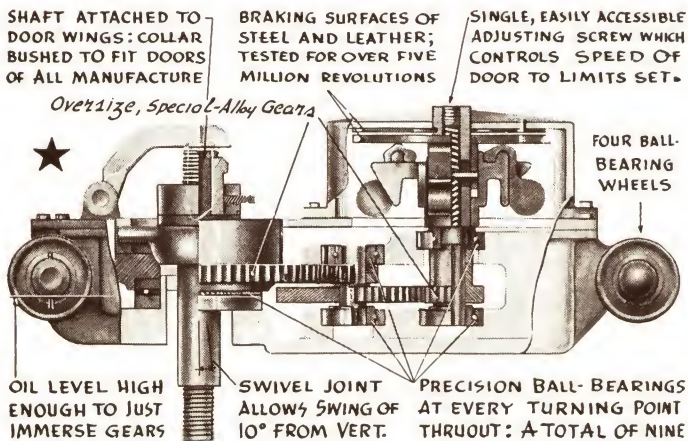
Glazing—Enclosure walls may be unglazed or glazed in half or quarter sections. Glass is $\frac{3}{8}$ -in. drawn plate. (Polished plate slightly higher.)

Weather Stripping—Felt and rubber "double wear," adjustable. (See lower left hand corner page 8.)

Hardware—Standard International panic proof mechanism, kick plates, push plates, two standard push bars each wing and standard track and trolley. Hardware bronze, satin finished. (Chromium plate optional at additional cost.)

Sizes—Furnished in 5 ft. 6 in., 6 ft. 0 in., 6 ft. 6 in. and 7 ft. 0 in. diameters. Height 6 ft. 10 in. to 7 ft. 0 in. For other dimensions see pages 10 and 11.

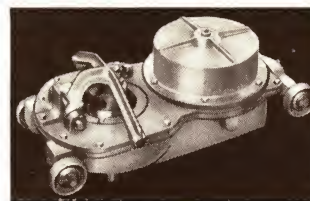
INTERNATIONAL SPEED CONTROL AND GOVERNOR



LEGEND OF OPERATION—Revolving door shaft (with a cup-and-finger pivot to allow door to swing 10° from vertical) is connected to rotating assembly (top right of diagram) by a ball bearing gear system having a total ratio of 16 to 1.

Speed control is made up of four brass weights which hang upon and bear against a rotating rack. Rotation of door past set speed makes these weights press upward against rotating brass disc, which touches leather brake washer, causing braking reaction magnified 16 times through gearing system.

Two springs in opposition against a pin set in rotating disc determine its vertical position. An accessible set screw at top acts on the springs, providing precise adjustable speed control.



Each International Speed Control is tested before leaving the factory, insuring correct adjustment. Once set, calibrations are inscribed on a special adjustment screw, so that it can be accurately adjusted to desired speed.

The International Speed Control is a positive "limit" brake of the centrifugal type. It controls speed at any predetermined limit. At normal speeds it is completely out of engagement.

Advantages—An International Speed Control prevents spinning and bumping, handling more traffic more efficiently. It reduces wear on all parts—especially rubber strips and assures safety and convenience to revolving door users.

A speed control is recommended by insurance companies who have experienced entrance accidents.

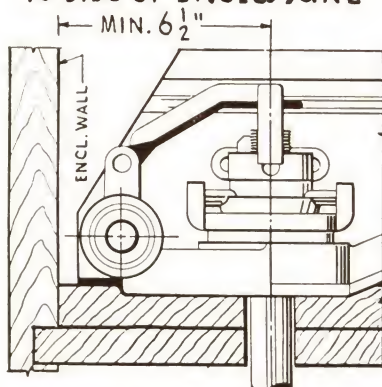
Space Required—Clearance required is the same as that required for standard track and trolley, which is shown at bottom of pages 11 and 13.

Maintenance—The International Speed Control requires no oiling. Adjustment is made by one easily accessible adjustment screw. Exclusive mechanical features such as ball bearings, special alloy gears running in oil, etc., result in a speed control that will run for years with little or no attention.

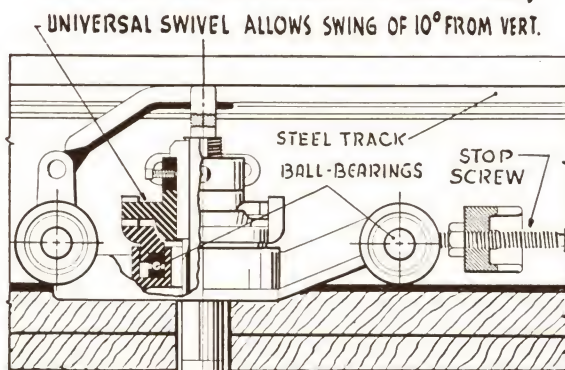
International Speed Control is protected by U. S. patents and applications: Patents No. 1,946,160; 2,029,318; 2,047,468. Other patents pending.

★ ★ DETAILS OF PANIC-PROOF MECHANISM ★ ★

SIDE VIEW, TROLLEY ROLLED TO SIDE OF ENCLOSURE

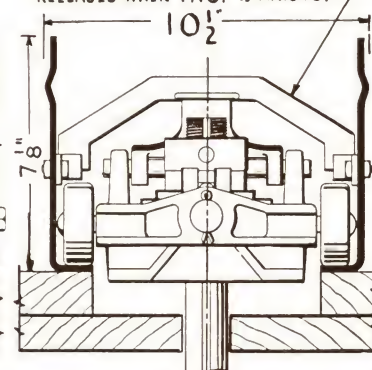


SIDE VIEW AND SECT. OF TROLLEY (INTERNATIONAL GOVERNOR FITS SAME SPACE)



END VIEW OF TROLLEY

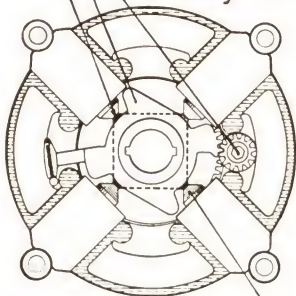
LATCH HOLDS TROLLEY FIRMLY IN PLACE; RELEASES WHEN PIVOT IS RAISED.



SECTION 'A-A'

• REVOLVING POSITION •
SHOWING THE PRINCIPLE OF SIMULTANEOUS RELEASE: INDIVIDUAL RESET

MAIN CAM, consisting of a bronze block and a toothed, circular disc is connected to THE PIN CAM, by means of the PINION CLUTCH GEAR, a double gear....

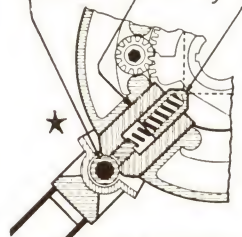


When any one wing is collapsed, its plunger will move Pin Cam, and thus release all four plungers....

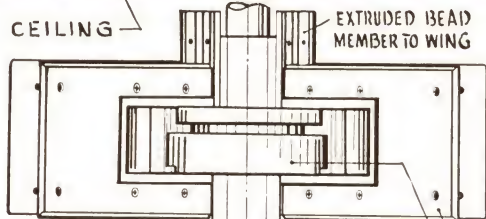
Releasing these plungers allows block to free roller, and all four wings are then free to collapse in any way.

SECT. 'A-A'

CUT TO SHOW PLUNGER ASSEMBLY



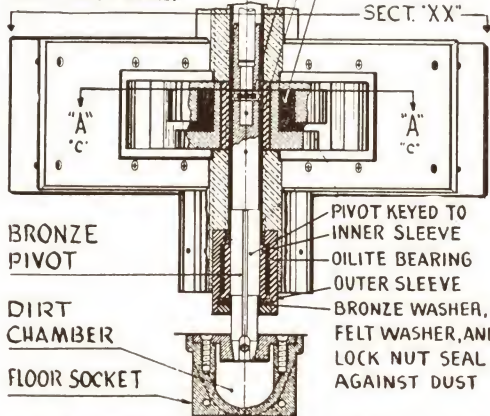
- IN RESETTING WINGS, INSERTION OF RESET KEY DISCONNECTS PIN CAM AND MAIN CAM SO THAT MOVEMENT OF THE PLUNGERS DOES NOT AFFECT MAIN CAM.



PIVOT LIFT,

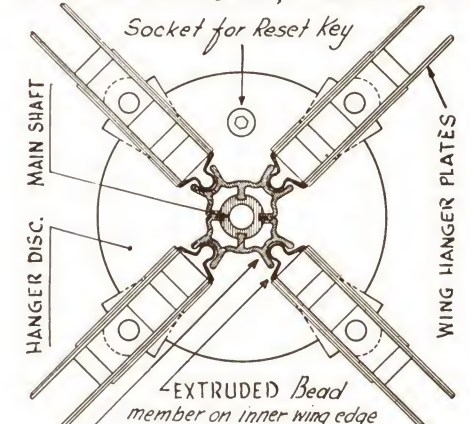
which will prevent unauthorized persons from lifting pivot out of floor socket....

KEY IS INSERTED IN THIS HOLE, FREEING THIS PLATE. LIFTING ON PLATE WILL RAISE LOWER PIVOT OUT OF FLOOR SOCKET, AND WINGS (SUSPENDED ON TROLLEY) MAY BE ROLLED TO SIDE, AND PUT IN 2ND. FLOOR SOCKET



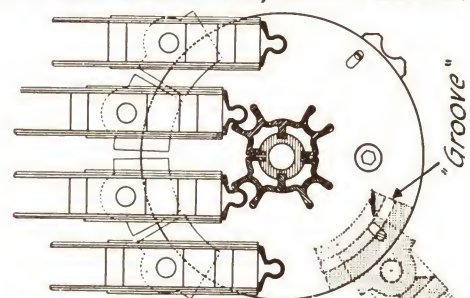
LONGITUDINAL SECTION

PLAN "X-X" AND "Y-Y" SHOWING WINGS LOCKED, REVOLVING POSITION



and - EXTRUDED SHAFT HOUSING when engaged for normal revolving position provide complete air-sealing, add strength and rigidity, and disengage easily to a folded position. In all positions they present a smooth finished appearance.

WINGS COLLAPSED, 'BOOK' FOLDED.



SECTION 'CC', at lower side of lower disc, and upper side upper disc. Note circular groove (in disc) to hold wings in proper limits in revolving or collapsed position.

International Revolving Door products are manufactured under one or more of the following U. S. Patents and applications pending: 1946160, 2029318, 2030547, 2047468, 2050589, 2055828, 2081774, 2084781, 2105972, 2108720, 2111182, 2111773, 2114405, 2125498, 2121512, 2128531.



Sliding Doors—Open



Sliding Doors—Closed

Public National Bank and Trust Co., New York City
York and Sawyer, Architects

These bronze sliding doors—rolling on a curved track and roller perfected by International—furnish this bank with protection along with smart appearance.

AUXILIARY SWING DOORS

MATCHED DESIGN—When auxiliary doors are ordered in conjunction with revolving doors, matched design is assured. Pilasters, glass panels, width of stiles and extrusions are uniform. Such details as push bars, locks, and cornice ornamentation are *alike*, producing a wholly symmetrical entrance.

MATCHED MATERIALS — International auxiliary doors are made in all the materials used in revolving door construction—cabinet woods, Formica, bronze, aluminum, stainless steel, etc. Color is perfectly matched.

MATCHED CONSTRUCTION — International auxiliary doors are manufactured with the same care and precision that have made International Revolving Doors outstanding in the field.

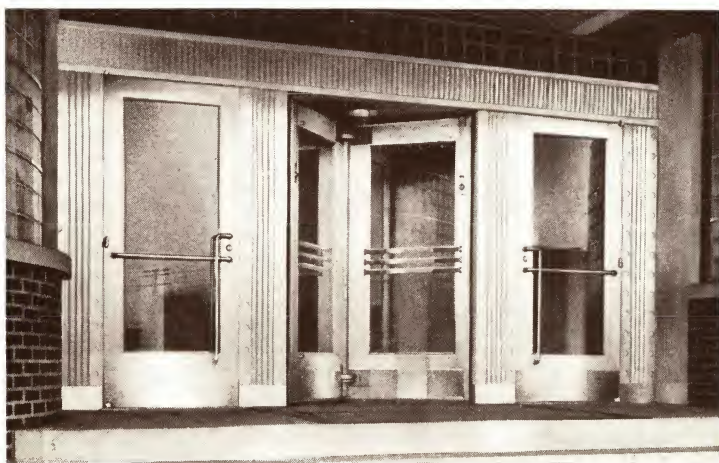
SLIDING DOORS

Curved, sliding doors—fitting into hollow enclosure walls—can be had with International Revolving Doors. International has perfected a special roller and curved track for these doors to assure ease of operation and long life. Designed to harmonize—open or closed—they do not detract from the appearance of the revolving door entrance.



Rike-Kumler Dept. Store, Dayton, Ohio
Schenck & Williams, Architects

An example of the symmetry that is obtained by a properly designed entrance. A combination of nickel silver and mahogany.



Standard Register Co., Dayton, Ohio
Austin Co., Cleveland, Ohio, Designers

Another example of harmony and symmetry obtained with International's complete entrance construction.



Irving Trust Co., New York City
Voorhees, Gmelin and Walker, Architects

This hollow bronze door—with tubular, slotted pilasters and a fan in the cornice—forms an integral and efficient part of the building's air conditioning system.

SOME TYPICAL INSTALLATIONS BY INTERNATIONAL ★

<i>Albany, N. Y.</i> State Office Bldg.	<i>Evanston, Ill.</i> Washington National Bank Bldg.	<i>Irving Trust Company</i> Jack Dempsey's Punch Bowl
<i>Augusta, Ga.</i> Georgia Railroad Bank	<i>Evansville, Ind.</i> Vanderburgh County Court House	King's Catering, Inc.
<i>Baltimore, Md.</i> Baltimore Federal Savings and Loan Assc.	De Jong's	President Self Service Restaurant
Hochschild-Kohn and Company Department Store	Lamplight Inn	Public National Bank and Trust Company
<i>Beloit, Wis.</i> McNeany's Department Store	McCurdy Hotel	Ritz-Carlton Hotel
<i>Boston, Mass.</i> Clark's Tavern	People's Savings Bank	Schrafft's
Manger Hotel	Vendome Hotel	Stewart's Restaurant
<i>Brooklyn, N. Y.</i> Brooklyn Central Library	<i>Flint, Mich.</i> A. C. Spark Plug Co.	Thompson's Restaurant
Lincoln Savings Bank	Grand Rapids, Mich.	Vanderbilt Cafeteria
Thompson's Restaurant	Ashton Bldg.	Westbury Hotel
<i>Canton, Ohio</i> Citizens Building and Loan Company	<i>Harrisburg, Penn.</i> Finance Bldg.	Wise Shoe Store
<i>Chicago, Ill.</i> Cutler's Shoe Store, Palmer House	<i>Jackson, Miss.</i> Heidelberg Hotel	<i>Oak Park, Ill.</i> The Fair Store
Rohde's Restaurant	<i>Jersey City, N. J.</i> Medical Center Bldg.	<i>Oklahoma City, Okla.</i> First National Bank
St. Clair Hotel	<i>Knoxville, Tenn.</i> Miller Department Store	<i>Omaha, Neb.</i> Fontenelle Hotel
The Rookery Bldg.	S. & W. Cafeteria	<i>Paducah, Ky.</i> Irving Cobb Hotel
Union Pacific Ticket Office	<i>Louisville, Ky.</i> Thompson's Restaurant	<i>Philadelphia, Penn.</i> Apartment House, 2031 Locust St.
Wieholdt's Store	Washington Bldg.	Bourse Bldg.
Williams Bldg.	<i>Memphis, Tenn.</i> First National Bank	Thompson's Restaurant
<i>Cincinnati, Ohio</i> Keyhole Bar, Gibson Hotel	<i>Milwaukee, Wis.</i> Plankinton Hotel	<i>Racine, Wis.</i> S. C. Johnson and Son
Southern Ohio Bank Bldg.	Terminal Hotel	<i>Richmond, Ind.</i> Municipal Electric Light and Power Bldg.
Traction Bldg.	<i>Nashville, Tenn.</i> Third National Bank Bldg.	<i>St. Louis, Mo.</i> Katz Drug Store
<i>Clarendon, Va.</i> Clarendon Trust Company	<i>Newark, N. J.</i> Thompson's Restaurant	<i>St. Louis Dairy Co.</i>
<i>Cleveland, Ohio</i> Burrows Brothers Store	<i>New Haven, Conn.</i> Southern New England Telephone Co.	<i>San Francisco, Calif.</i> Central Tower Bldg.
Second Federal Savings and Loan	<i>New Rochelle, N. Y.</i> Schrafft's	Grisson's Chicken House
Society for Savings	<i>New York City, N. Y.</i> Central Nurses Residence, Welfare Island	<i>Sharon, Penn.</i> Sharon Department Store
<i>Columbus, Ohio</i> Thompson's Restaurant	Child's Restaurant	<i>Shelbyville, Ind.</i> Shelby County Court House
<i>Dayton, Ohio</i> Rike-Kumler Store	East River Savings Bank	<i>Springfield, Ill.</i> Springfield Dial and Office Bldg.
Standard Register Company	Endure Sandwich Shop	<i>Washington, D. C.</i> Harrington Hotel
Winter's National Bank Bldg.	Franklin Simon's	Southern Bldg.
<i>Detroit, Mich.</i> Carboloy Bldg.	Gripsholm Restaurant	Willard Hotel
Fine Arts Bldg.	Horn and Hardart's	<i>Wilmington, Del.</i> Ernest Di Sabatino and Sons Office Bldg.
<i>Elkhart, Ind.</i> Mile's Laboratories	Information Bldg., Ellis Island	Security Trust Company

SPECIFICATIONS

GENERAL—Revolving door contractor shall furnish and install as indicated on plans and specifications International Revolving Doors. Contractor shall include enclosure walls, ceiling, cornice, panic proof mechanism, trolley and all necessary hardware and glass.

MECHANISM—Mechanism shall be Simultaneous Releasing Panic Proof. Application of excess pressure to any one wing shall cause the remaining wings to be released from tension and free to swing outward. Mechanism shall be equipped with adjustment so that one man can reset wings individually.

Main Shaft to be of one-piece steel seamless tubing with $\frac{5}{8}$ -in. thick wall and covered with an extruded housing closely engaging a beaded member on inner wing edge. Housing to extend full height and give complete air-seal when in revolving position.

Pivot Lift—To prevent unauthorized persons from lifting pivot out of floor—shall be key operated.

Trolley to be certified malleable iron construction, mounted on four ball bearing wheels and furnished with main precision ball bearing and a universal swivel. To be mounted on special formed steel track.

All mechanism shall be concealed and have no projecting parts. The lower pivot shall be of aluminum-bronze alloy and provided with bearings of rust-proof steel and Oilite bronze.

WINGS AND ENCLOSURE WALLS

Wood Veneer on Wood Core—Wings and enclosures to be five ply—(specify wood)—on a ventilated wood core.

Metal Overlay on Wood Core—Wings and enclosures to be gauge (specify metal) cemented to five ply ventilated wood core with waterproof adhesive under pressure. Finish of metal to be (Minimum thickness of metal recommended: aluminum, 16 B&S Ga.; nickel silver, 16 B&S Ga.; stainless steel, 22 U.S.S. Ga.; bronze, 16 B&S Ga.)

Formica on a Wood Core—Wings and enclosures to be of (Specify color) (dull or polished finish) Sheets

to be applied with waterproof adhesive to five ply ventilated wood core.

Hollow Metal Doors—Wings and enclosures to be of seamless tubular welded metal. Corners of wings to be reinforced with solid metal. Enclosure walls to be of gauge metal fastened to steel channel structural supports with welds or concealed rivets.

Welds to be ground and filed so no joint is visible (except on aluminum doors where a hairline will show at top of wings).

HARDWARE—Weather strip to be integrally cemented, one piece felt and rubber, secured by a special clamp which will permit moving the strip out to a second groove when it becomes worn. Wood wings shall be held by double grooved wood clamps secured to door with visible screws. Formica and all types of metal doors shall have an extruded metal member to hold weather strip.

Push Bars shall be of extruded section in one piece and secured with solid bracket. Push plates of metal to match door and be etched or plain.

Master-keyed, regular, burglar locking or electrical locking systems as required.

GLASS—Glass—good quality American polished plate glass of $\frac{1}{4}$ -in. thickness. ($\frac{3}{8}$ -in. or $\frac{1}{2}$ -in. optional for "Crystal" construction.)

LIGHTS—Snapped-in flush ceiling lights, including reflectors and removable covers with concealed screws. Does not include electric fixtures. (Included under "electric contract.")

SPEED CONTROL—Speed of revolving door shall be controlled by a centrifugal brake assembled in standard trolley. Brake shall have special alloy over-sized steel gears operating in oil; friction surface protected from oil splash; and precision ball bearings. Brake to remain out of engagement at normal speeds. Mechanism to have a single, easily accessible adjustment screw, for purpose of adjusting braking action.

INTERNATIONAL REVOLVING DOOR COMPANY

1321 EDGAR STREET

★ ★ ★ ★ ★

EVANSVILLE, INDIANA

INTERNATIONAL'S LOCAL REPRESENTATIVES

ALBANY, GA. Hunter-Knight Co., 121 N. Slappey Drive
ALBANY, N. Y. Harding Building Specialties Co., 271 Washington, Ave.
ALBUQUERQUE, N. MEX. The Colorado Builders' Supply Co., 1534 Blake St., Denver
ATLANTA, GA. Luke Seawell, 152 Nassau St.
AUSTIN, TEX. Central Texas Supply Co., Inc., P. O. Box 722
BALTIMORE, MD. Edw. J. Seager, 308 Baltimore Life Bldg.
BIRMINGHAM, ALA. Thomas Supply Co., Brown-Marx Bldg.
BOISE, IDAHO. J. G. Doerr, 501 S. 8th St.
BOSTON, MASS. Rubin-Burke Co., 216 Tremont St.
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BUTTE, MONT. The Builders Supply Co., Helena, Mont.
CASPER, WYO. Harry Champion, 523 Park Ave.
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DAYTON, OHIO. G. H. Condit, 712-713 Gas & Elec. Bldg.
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EL PASO, TEX. C. C. Gaines Co., 1002 Mills Bldg.
ERIE, PA. Geo. H. Kraft & Son, 602 Shenley Drive
FORT WAYNE, IND. Jones and Moss, 215 Standard Bldg.
FORT WORTH, TEX. R. M. Sedwick Co., 412 Construction Bldg., Dallas, Tex.
GRAND RAPIDS, MICH. Haven-Busch Co., 501 Front Ave., N. W.
HARRISBURG, PA. Metal Building Products Co., 1515 N. Cameron St.
HARTFORD, CONN. Bidwell Hardware Co., 1293 Main St.
HELENA, MONT. The Builders Supply Co., Helena
HOUSTON, TEX. Robert Voigtlander, 1612 Miller St.
HUNTINGTON, W. VA. James J. Weiler & Sons, Inc., 202 Elm St.
INDIANAPOLIS, IND. Hoover Brothers, 630 Architects & Builders Bldg.
JACKSON, MISS. Clark Building Material Co., No. 3 John Hart Bldg.
JACKSONVILLE, FLA. George P. Coyle, 418 Park St.
KANSAS CITY, MO. B-D-R Engineering Corporation, Midland Bldg.
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LOS ANGELES, CALIF. Frank Peck Specialty Co., 420 S. San Pedro St.
LOUISVILLE, KY. The Equipment & Supply Co., 420 Baxter Ave.
MEMPHIS, TENN. Geo. O. Friedel, Builders Exchange
MIAMI, FLA. Manufacturer's Agent Co., 1785 S. W. 13th St.
MINNEAPOLIS, MINN. Hauenstein & Deggendorf, 800 Builders Bldg.
MILWAUKEE, WIS. Jackson & Fahey Co., Inc., 1311 Majestic Bldg.
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NEW YORK CITY, N. Y. Wm. K. Waterman, 100 E. 42nd St.
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OMAHA, NEBR. Kraus & Trustin, 636 Paxton Block
PEORIA, ILL. Builder's Specialty Co., 325 S. Washington St.
PHILADELPHIA, PA. Robert R. MacKay, 2206 Chestnut St.
PHOENIX, ARIZ. Baker-Thomas Lime & Cement Co., 300 S. 12th St.
PITTSBURGH, PA. Joseph H. Thom, 1639 Oliver Bldg.
PORTLAND, ORE. Mercer Steel Co., Inc., 838 N. W. 13th Ave.
PORTSMOUTH, OHIO. Horr Brothers, 1302 Tenth St.
RICHMOND, VA. M. R. Mills, Jr., 210 E. Franklin St.
ROANOKE, VA. G. Eric Sachers, P. O. Box 1885
ST. LOUIS, MO. W. E. Way, Building Specialties, 825 Chemical Bldg.
ST. PAUL, MINN. Hauenstein & Deggendorf, 800 Builders Bldg., Minneapolis, Minn.
SALT LAKE CITY, UTAH. Crager Wire & Iron Works, 34 E. 9th St. S.
SAN ANTONIO, TEX. John W. Phillips Co., 207 Builders Exchange
SAN FRANCISCO, CALIF. Rolph, Mills and Co., Rialto Bldg.
SCRANTON, PA. La Bar and Evans, 711 Linden St.
SEATTLE, WASH. D. E. Fryer and Co., 1613 Seventh Ave.
SYRACUSE, N. Y. Waterman Building Specialties, 1407 Erie Blvd. E.
TOLEDO, OHIO. Spencer Comstock, 817 Security Bank Bldg.
TULSA, OKLA. Ray S. Trimble, Philcade Bldg.
WASHINGTON, D. C. H. G. Garlock, 412 Southern Bldg.
WICHITA, KANS. Grabendike Engineering Sales Co., P. O. Box 333
WINSTON-SALEM, N. C. The Steel Service Co., P. O. Box 454
HAVANA, CUBA. Jose Garcia Benitez, Apartado P. O. Box 2358

INTERNATIONAL REVOLVING DOOR CO.

★ *Evansville, Indiana U. S. A.* ★